



70L7-GT



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RECTIFIER-BEAM POWER AMPLIFIER

Heater	Coated Unipotential Cathodes	
Voltage	70	a-c or d-c volts
Current	0.15	amp.
Maximum Overall Length		3-7/16" ←
Maximum Seated Height		2-7/8" ←
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermed. Sh. Octal 8-Pin
Pin 1 - Rectifier Cath.	①	Pin 5 - Amplifier Grid
Pin 2 - Heater	②	Pin 6 - Amplifier Cath.
Pin 3 - Amplifier Plate	③	Pin 7 - Heater
Pin 4 - Amplifier Screen	④	Pin 8 - Rectifier Plate
Mounting Position	BOTTOM VIEW (8AA)	Any

AMPLIFIER UNIT

Plate Voltage	117 max.	volts	←
Screen Voltage	117 max.	volts	←
Plate Dissipation	5.0 max.	watts	←
Screen Dissipation	1.0 max.	watt	←
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>			
Plate	110	volts	←
Screen	110	volts	
Grid *	-7.5	volts	
Peak A-F Grid Voltage	7.5	volts	
Zero-Signal Plate Cur.	40	ma.	
Max.-Signal Plate Cur.	43	ma.	
Zero-Signal Screen Cur.	3 approx.	ma.	
Max.-Signal Screen Cur.	6 approx.	ma.	
Plate Resistance	15000	ohms	
Transconductance	7500	μmhos	
Load Resistance	2000	ohms	
Total Harmonic Distortion	10	%	
Max.-Signal Power Output	1.8	watts	

RECTIFIER UNIT

Peak Inverse Voltage	350 max.	volts	←
Peak Plate Current	420 max.	ma.	←
D-C Heater-Cathode Potential	175 max.	volts	←
<i>With Condenser-Input Filter:</i>			
A-C Plate Voltage (RMS)	117 max.	volts	
Total Effective Plate-Supply Impedance ▲	15 min.	ohms	←
D-C Output Current	70 max.	ma.	

■ It is recommended that the potential difference between heater and cathode of the amplifier unit be kept as low as possible by connecting pin #2 to the side of the line opposite that to which pins #7 & #8 are connected.

* The type of input coupling used should not introduce too much resistance in the grid circuit. Transformer- or impedance-coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not higher than 0.5 megohm.

▲ When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

← Indicates a change.

Dec. 1, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

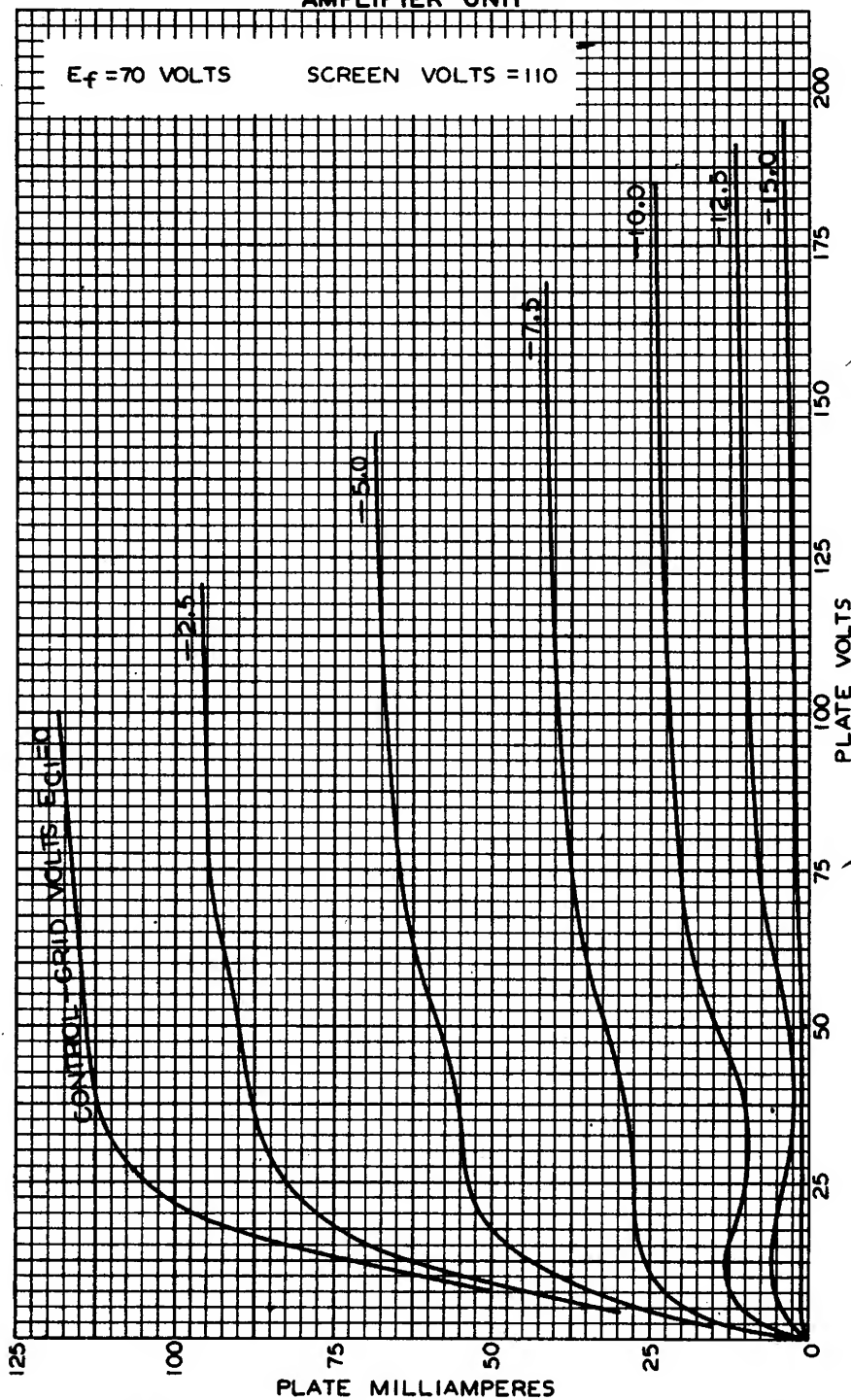
DATA

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AVERAGE PLATE CHARACTERISTICS AMPLIFIER UNIT



SEPT. 26, 1941

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92C-6323